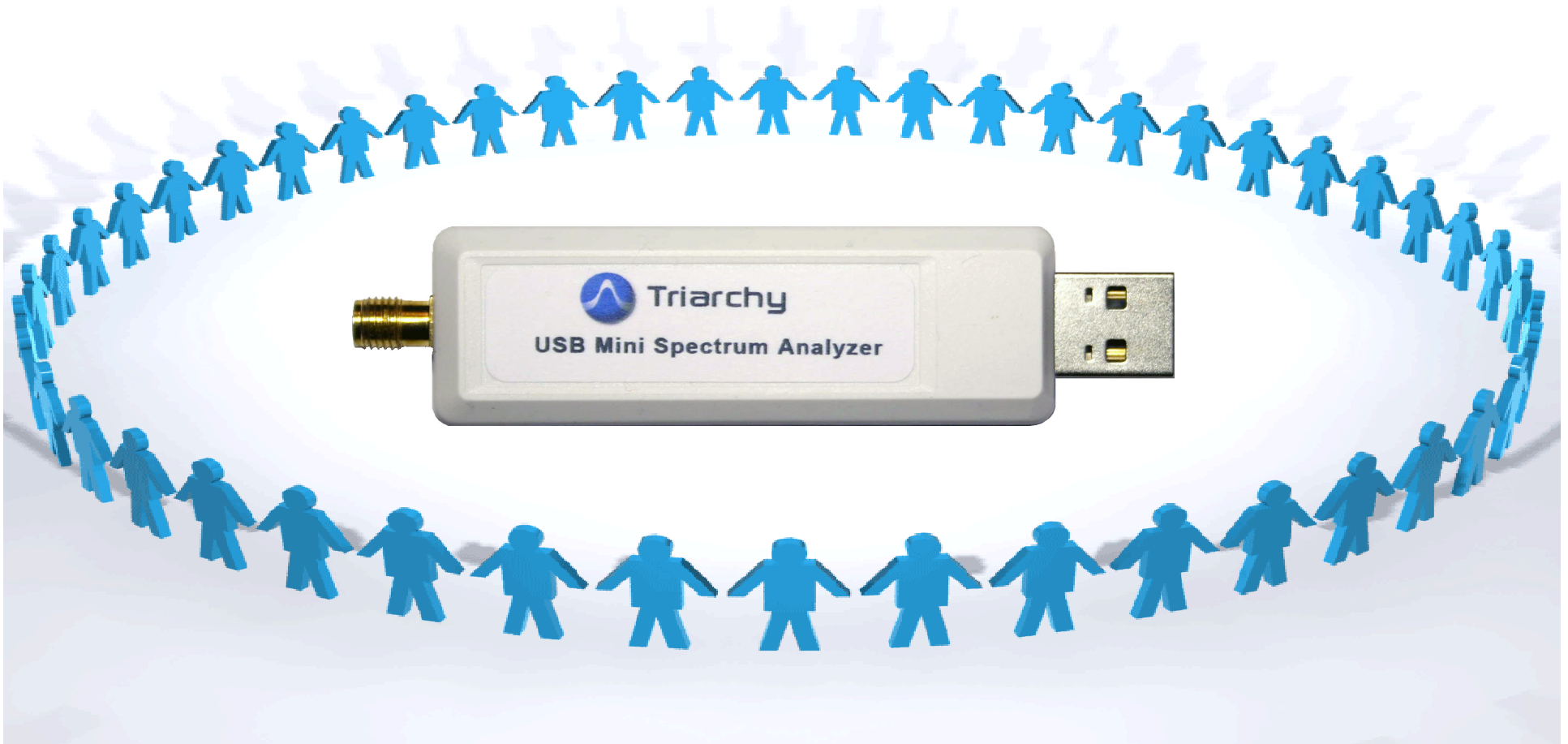




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## SRD,RFID signal testing with TSA5G35





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## **Zigbee channel frequencies**

- Short Range Devices (SRD) working frequency band are 315MHz, 433MHz, 868MHz, 915MHz and 2400MHz.
- SRD work as remote controller.
- SRD also work as active RFID, such as wireless sensor, Tag and small wireless system.
- Passive RFID, working frequency is 13.56MHz



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## CC2511 demo board conductive testing

1: TSA5G35 will be connected  
CC2511 demo board

2: CC2511 demo board install on  
the SmartRF 04 eval board,  
which will be controlled by SmartRF  
studio tools.

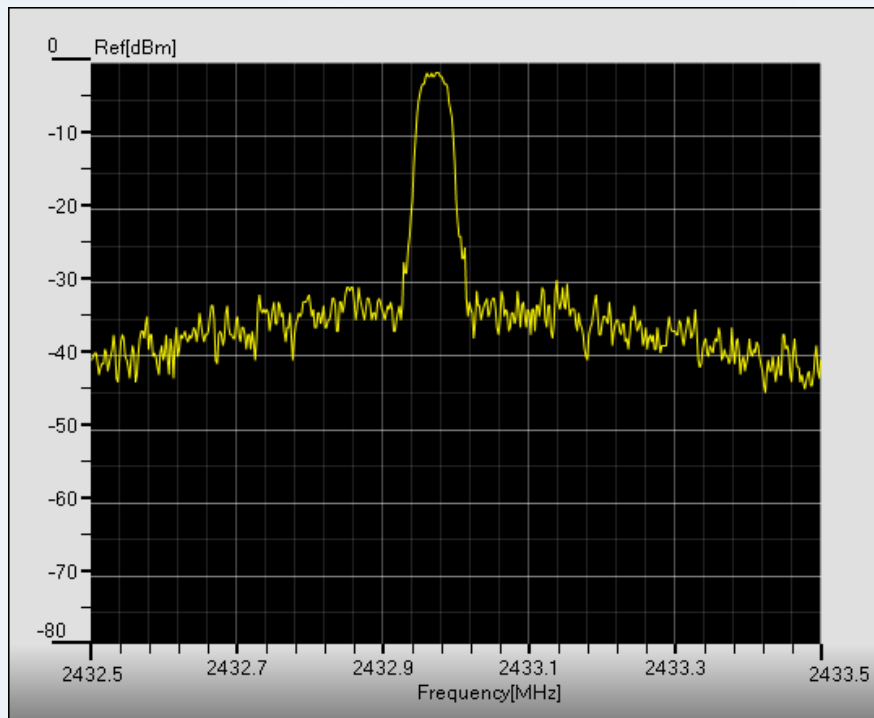




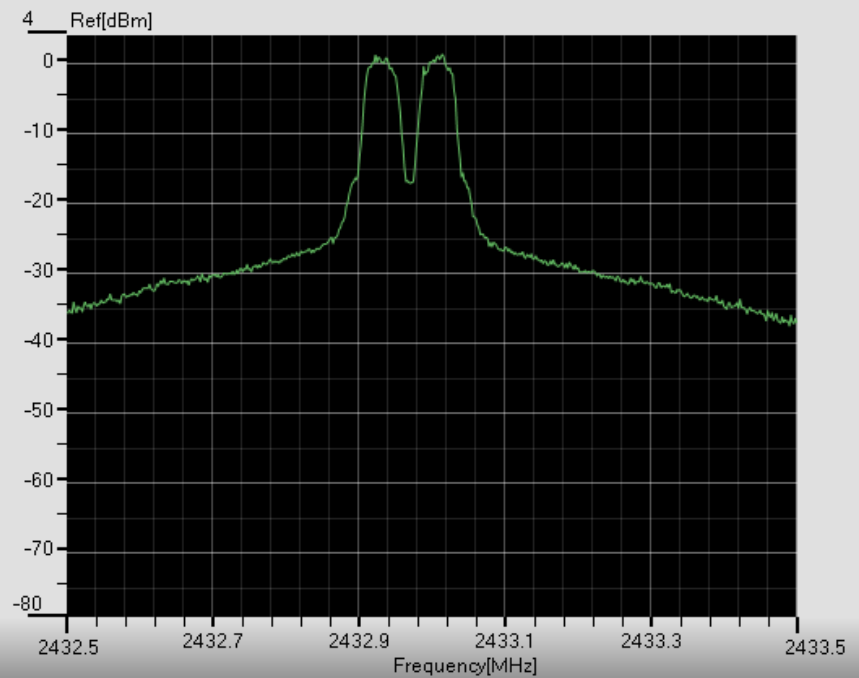
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## CC2511 demo board conductive testing



Carry signal, Freq=2433MHz  
SPAN=1MHz,  
Sweep time=x1



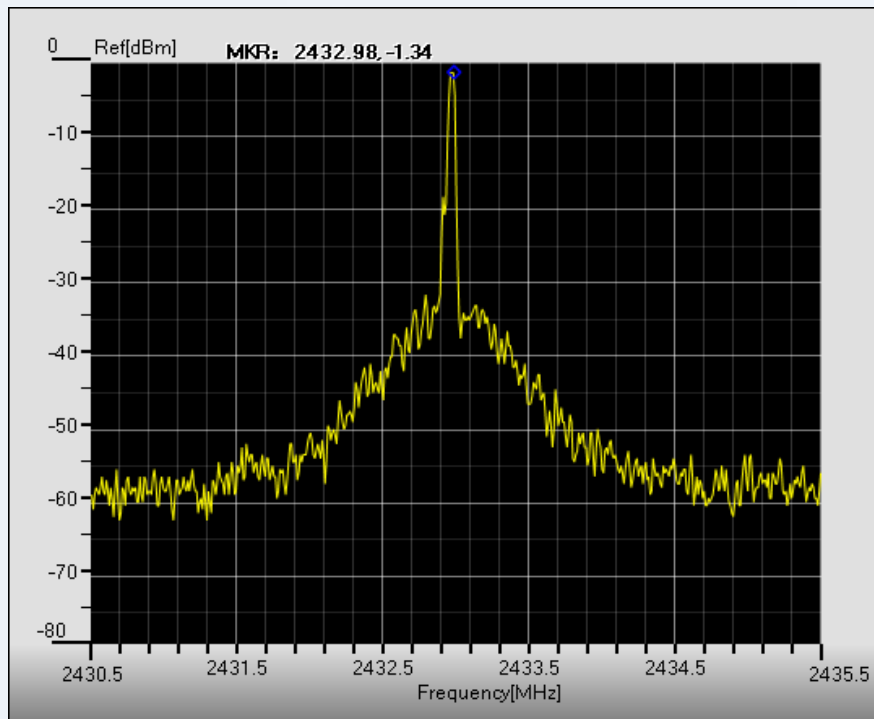
10Kbps FSK modulation  
SPAN=1MHz  
Sweep time=x2



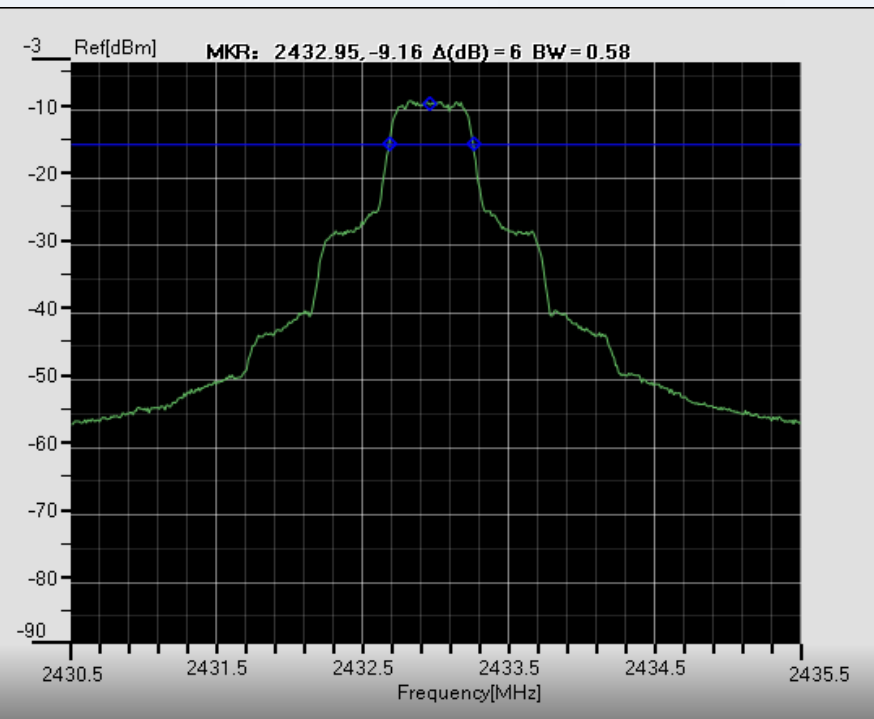
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## CC2511 demo board conductive testing



Carry signal, Freq=2433MHz  
SPAN=5MHz,  
Sweep time=x1



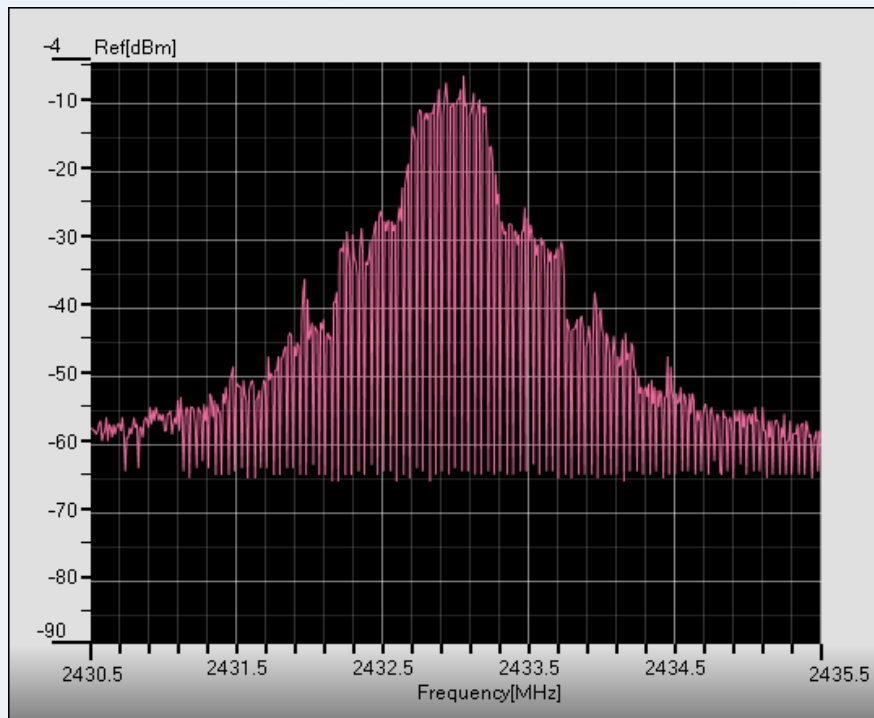
500Kbps MSK modulation  
SPAN=5MHz  
Sweep time=x2



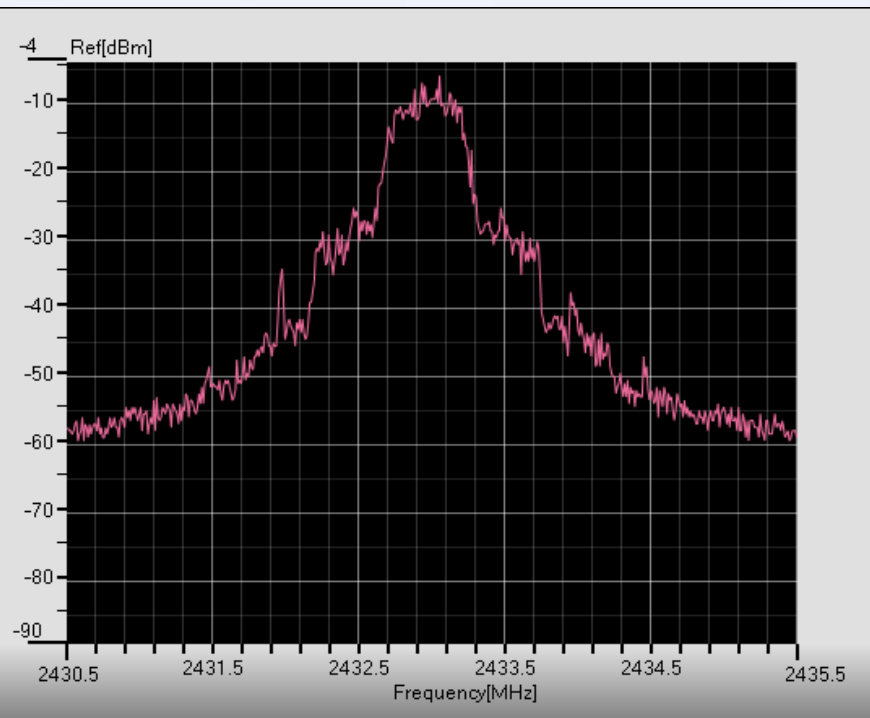
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## CC2511 demo board conductive testing



500Kbps MSK, packet TX  
SPAN=5MHz,  
Sweep time=x2, short time testing



500Kbps MSK, packet TX  
SPAN=5MHz  
Sweep time=x2 long time testing



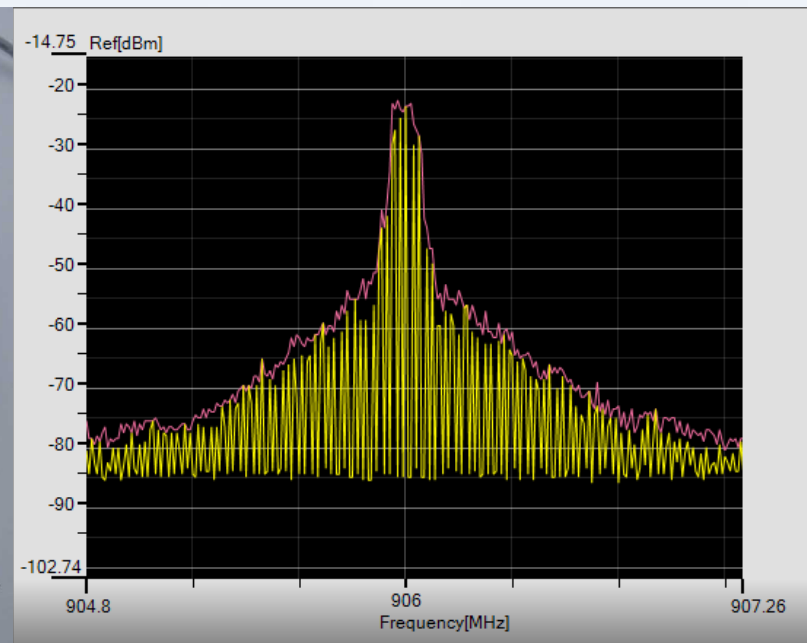
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## CC430F6137 demo board Radiation testing



EM430F6137RF900 Evaluation module



Evaluation board work at 906MHz



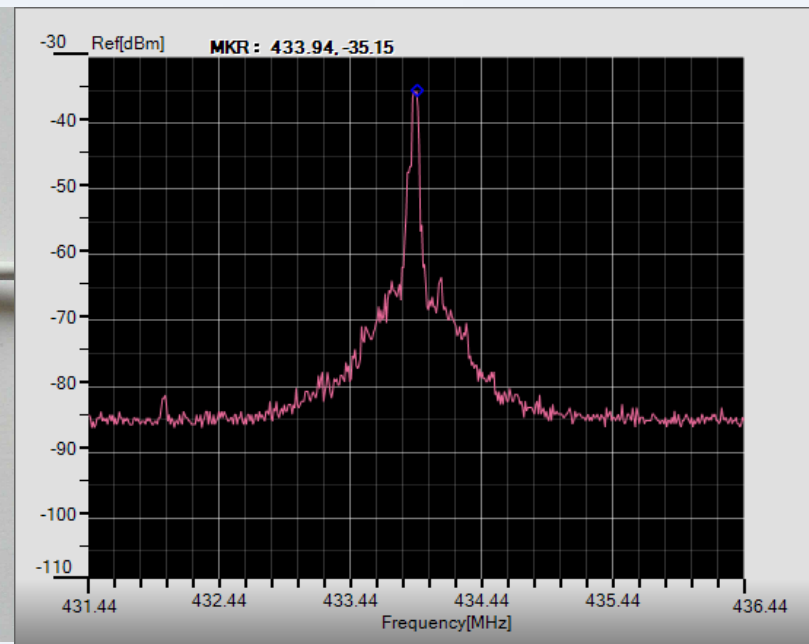
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## Remote controller Radiation testing



Testing remote controller



Remote controller work at  
433.94MHz





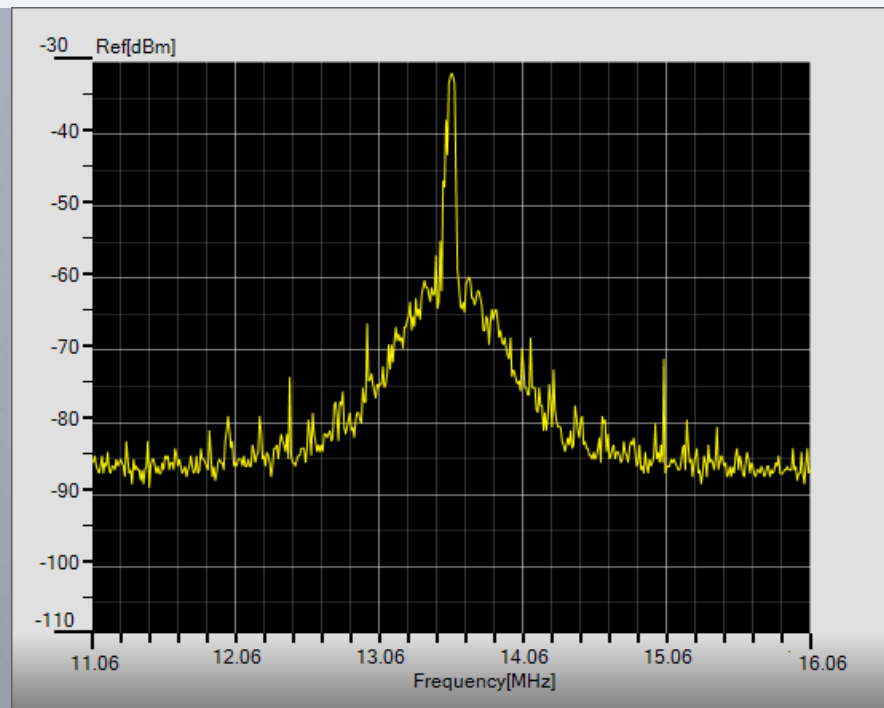
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## TRF7960 demo board Radiation testing



TRF7960 Evaluation module



Evaluation board work at 13.56MHz